



## LEOI-40A Automatic Experimental System for Polarized Light

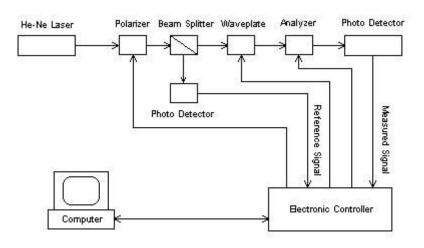


## Description

LEOI-40A is an automatic system for conducting experiments in optical polarization. Students can conduct the following experiments using this system:

- 1. Measurement of Brewster's angle
- 2. Verification of Malus's law
- 3. Function study of a half-wave plate

4. Function study of a quarter-wave plate: circularly and elliptically polarized light



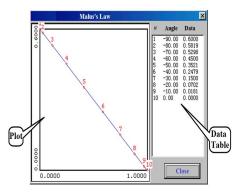
Schematic of System Configuration





## Feathure

Polarization by reflection, refraction, and dichroism Verify Malus's law Measure Brewster's angle



Display panel of software for the verification of Malus's law

## Part list

Description	Specs/Part No.	Qty
He-Ne Laser	With Brewster window, >1.0	1
	mW@632.8 nm	
Optical Rail	Duralumin, length 1 m (LEPO-54-1)	1
Laser Holder		1
Carrier	z or x-y or x-y-z adjustable	5
Electronic Controller		1
Photoelectric Receiver		2
Glan-Taylor Prism		2
Beam Splitter	50:50	1
Condenser Lens	<i>t</i> =100 mm	1
λ/2 Wave Plate	Φ 10, $λ = 632.8$ nm, quartz	1
λ/4 Wave Plate	Φ 10, $λ = 632.8$ nm, quartz	1
2-D Adjustable Holder	LEPO-8	2
3-D Adjustable Holder	LEPO-7	2
Adaptor Piece	LEPO-10A	1
Adaptor Piece	LEPO-10D	1
Motorized Mount	Controlled by stepping motor, rotary	3
USB Cable		1





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Software CD

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